Ark., Cal., Ill., Ky., Mo., Nev. 25th, Cal., Conn., Ind., Ky., Ohio., Pa., Tenn. 26th, N. C., N. Y., Pa. 28th, Ala., Miss., R. I. Description of the more severe sleet storms of the month is given under "Local storms." Sleet was reported as follows. 1st, Ill., Me., N. Y., Pa. 2d, Ill., Ind., Iowa, Mass., Mo., Pa. 3d, Ill., Me., N. Y., Ohio, Pa., Vt. 6th, Ark., Mass., Nev., N. J., N. Y., Ohio, Pa., Vt. 6th, Ark., Mass., Nev., N. J., N. Y., Pa., R. I. 7th, Conn., Kans., Mass., Nev., N. J., N. Y., Pa., R. I. 7th, Conn., Kans., Mo. 9th, Ark., Ill., Ind., Ohio, Oregon, Pa. 8th, Iowa, Kans., Mo. 9th, Ark., Ill., Ind., Ariz., Cal., Colo., Ill., Iowa, Kans., Minn., Nev., S. Dak., Wis. 25th, Colo., Mo., Wis. 26th, Ark., Conn., La., Md., Mass., 10th, Me., N. Y., Vt., Wash. 11th, Wash. 12th, Kans., N. J., Pa., Va., Wash. 13th, N. J. 14th, Oregon. 15th, Colo., Miss., N. J., N. C., Pa., Va. 27th, R. I., Utah, Va. 28th, Colo., Ill., Ky., Miss., Oregon, Tenn., Utah.

winds.

Chart II by arrows flying with the wind. In New England, the Lake region, the upper Mississippi and Missouri valleys, Gulf states, from northeast to southeast; in the east Gulf sound was heard, and articles were carried up. from east to south; in the Ohio Valley, from south to west; in the extreme northwest, from northwest to north; on the northeast slope of the Rocky Mountains, over the northern to southwest; on the southeast slope of the Rocky Mountains, from west to north; on the south Pacific coast, from west to northwest; and in the south Atlantic states, Tennessee, and on the middle-eastern slope of the Rocky Mountains, variable.

6 HIGH WINDS (in miles per hour). Wind velocities of 50 miles, or more, per hour were reported at regular stations of the Signal Service, as follows: 4th, 56, nw., at Wood's Holl, Mass. 7th, 55, e., at Block Island, R. I.; 65, n., at Fort McKinney, Wyo. 8th, 54, nw., at Valentine, Nebr.; 52, nw., at Fort Sully, S. Dak. 9th, 50, se., at Fort Nebr.; 52, nw., at Fort Sully, S. Dak. 9th, 50, se., at Fort Canby, Wash. 12th, 60, sw., at Fort Canby, Wash. 13th, 52, se., at Red Bluff, Cal. 14th, 52, sw., at Winnemucca, Nev. 15th, 50, sw., at Chicago, Ill. 16th, 56, w., at Winnemucca, Nev. 20th, 52, s., at Lexington, Ky. 22d, 50, s., at Winnemucca, Nev.; 50, nw., at Kitty Hawk, N. C. 23d, 52, sw., at Chicago, Ill.; 58, sw., at Winnemucca, Nev. 24th, 50, sw., at Abiliana Tax., 52, sw., at Winnemucca, Nev. 52 50, sw., at Abilene, Tex.; 52, sw., at Winnemucca, Nev.; 53, se., at Lexington, Ky.; 60, sw., at Chicago, Ill. 25th, 52, w., at Chicago, Ill.; 52, n., at Abilene, Tex. 26th, 56, w., at Jacksonville, Fla. 28th, 50, s., at Winnemucca, Nev.

to electric wires in east-central, central, and south-central New York.

8th.-A heavy storm of wind and snow prevailed over Nebraska, west Iowa, South Dakota, and Minnesota, delaying railroad trains, and causing loss of life in Nebraska and South Dakota. At Valentine, Nebr., the storm was reported as one of the severest ever noted at that station. North and northwest winds of 30 to 52 miles per hour continued all day, and the snow drifted 4 to 10 feet deep. A soldier and 2 settlers were reported frozen to death 6 miles from the station. At county, Cal. North Platte, Nebr., the wind attained an extreme velocity of 60 miles. At Genoa, Nebr., the snow drifted 10 to 12 feet deep in places. At Elkton, S. Dak., a gale from the ne. reached about 80 miles per hour; 6 persons were lost in the storm and frozen to death. High north winds prevailed in San Bernardino county, Cal., causing considerable damage. and many oranges were whipped from the trees by the wind. \$3,000. High norther winds prevailed in the Santa Ana Valley, and 20t

The prevailing winds during February, 1891, are shown on sand storms were reported in the Mojave and Colorado deserts. A sloop was wrecked off Catalina Island and 2 men lost.

9th.—At 3.30 p. m., central time, a tornado, moving n. 65° the Lake region, the upper Mississippi and Missouri valleys, and over the southern and middle plateau regions the winds were generally from southwest to northwest; in the middle vailed before and light rain followed the passage of the storm. Atlantic states, from the northwest; in Florida and the west A whirling motion from right to left was observed; a roaring states, the Rio Grande Valley, and on the north Pacific coast, greatest destruction was about 150 feet in width and about 2 miles in length. A severe storm was also reported at Talladega, Ala. At 3 p. m., central time, a storm moved northeast over Coaling, Ala., with thunder and lightning and heavy rain plateau region, and on the middle Pacific coast, from southeast after its passage. A loud roaring sound was heard; the storm apparently revolved slowly from right to left and light articles were carried up. The width of the path of greatest destruction was about 500 yards. Timber in the centre of the path was generally prostrated in the direction the storm moved, although some trees were thrown outward. No persons were killed, but a number were injured. Several small buildings, valued at a few thousand dollars, were destroyed, and others were injured. The destruction of timber was very great. At Chattanooga, Tenn., beavy rain fell at intervals, flooding sewers. The rush of water into the artificial lake at the Electric Park, near the foot of Missionary Ridge, caused the embankment to give way, flooding the surrounding country. Railroads were seriously affected by washouts and landslides. At Bryson City, N. C., telegraphic communication was cut off and a bridge was carried away during a storm.

11th.-A severe wind storm, with thunder and rain. caused some damage to timber south of Soapstone Mount, N. C. 12th.—An unusually heavy storm visited Puget Sound at

night, delaying boats.

13-14-15th.—A rain storm prevailed over north California and west Oregon on the 13th and 14th, swelling streams to LOCAL STORMS.

LOCAL STORMS.

Th.—A severe sleet and snow storm caused great damage the rain continued until midnight of the 15th, with a southeast The abutments of 2 bridges were damaged, also the electric light plant. From midnight of the 14th to 7.05 a.m. of the 16th 6.07 inches of rain fell at Red Bluff, the greatest amount of precipitation noted for one storm in three years. The rainfall was also heavy in other parts of the state, and was of great benefit to the fruit crop.

16th.—A thunder-storm, with a shower of hail about the size of peas, occurred at Eureka, Cal., at 10 p. m., damaging electric wires. A severe wind storm was reported in Calaveras

17th.—High northwest winds and heavy snow prevailed in Minnesota. The snow drifted badly, delaying trains. A high e. wind, blowing 50 miles per hour, prostrated some timber at Lunenburgh Vt.

18-19th.—A severe rain, sleet, and snow storm prevailed from Colorado to Indiana, prostrating electric wires. At The walls of the new sugar refinery at Chino were blown down, Leavenworth, Kans., the damage to wires was estimated at

20th.—At Grand Haven, Mich., snow turned to rain which

froze as it fell. Telegraph wires were prostrated and communication was cut off. At San Antonio, Tex., heavy rain, with thunder, began at 7.45 a.m. Hail the size of chestnuts child and doing about \$4,000 damage to property. fell, breaking window glass. A severe storm moving northeast was reported at Cape Girardeau, Mo., in the morning.

beth" was wrecked about 4 miles outside the Golden Gate, near Rocky Point, the evening of the 21st. The ship went to pieces soon after striking the rocks, and 18 of the 29 persons on board were drowned. The life-saving crews and tugs tried to save the ship and the persons on board, but owing to high wind little or nothing could be done. The captain of the lifesaving crew was drowned. Much damage was done about the city and harbor by high wind. Some new and unfinished buildings were blown down, several barges were sunk, and telephone and telegraphic communication was almost entirely suspended. At Sacramento, Cal., high south winds prevailed on the 22d, and the barometer fell to 29.10, the lowest ever noted at that place. At Eureka, Cal., the barometer stood at 29.06 at 10 p. m. of the 21st, with wind blowing a gale from the southeast. At 8 p. m. of the 22d the barometer fell to 28.97, the lowest ever recorded at that place. At Roseburgh, Oregon, rain and heavy, moist snow alternated during the 22d, prosthe 22-23d. On the 24th a heavy shower of rain fell in the rain and violent winds, the highest velocity, 40 miles per hour, afternoon. At Red Bluff, Cal., a southeast gale, with rain, occurring shortly after midnight. Much damage was caused prevailed from midnight to 3.30 a. m. of the 23d. At Olympia, Wash., light snow fell on the 23d, and the barometer fell snow, which ended 10.15 a.m. The gale ended 6.30 a.m. A on the 23d, with rain in the morning. At 8 a.m. the barometer read 29.15, the lowest recorded at the station. Disastrous floods prevailed in west Arizona from the 22d to the close of March, 1872, when the wind reached 58 miles per hour from the month. At Farley's Camp, Ariz., 4.00 inches of rain were the ne. A number of houses and electric wires were damaged. reported in 9 hours on the 23d. A report from Cottonwood, Ariz., dated the 23d, stated that it had rained steadily for 6 floods and freshets.

22d.—A storm, with thunder and lightning, moved ne. over Sunbury, N. C., at 10.30 a. m., eastern time, killing one

24th.—At 4.45 p. m., central time, a tornado moved northeast over Troy, Mo., and traveled about 6 miles in a direct Scription of the floods resulting from the rainfall will be found under the heading "Floods." At San Francisco, Cal., rain began 10.30 a. m., 21st, and continued at intervals during the 22d. During this period the wind blew a gala reaching. locity of 50 miles per hour the night of the 22d, when the Signal wind changed to nw. and blew hard all day. The temperature of 50 miles per hour the night of the 22d, when the Signal wind changed to nw. and blew hard all day. The temperature and thunder and lightning prevailed in the early morning. The wind suddenly veered to w. and nw., reaching 35 to 40 miles per hour, with light snow, and the temperature fell 46° in 8 hours. At Amana, Iowa, the temperature was very high in the morning; at 2 p. m. the wind veered to w., and in 6 hours the temperature fell 31°, with wind blowing hard from the nw. At midnight a tornado moving e. was reported at Utica, Ind. The storm had a whirling motion from s. to e. and was attended by a continuous glare of lightning. Timber and other articles were carried up. All trees blown down were lying in an easterly direction, and some trees had the tops torn off. The path of greatest destruction was about 100 feet in width and passed through the centre of the town, where buildings were damaged to the extent of about \$6,000. Large timber was carried up by the storm and driven through the sides of houses. At Jeffersonville, Ind., a bell tower and a few trees were blown down in the eastern part of the city. trating electric wires, and on the 24th rain fell at intervals, About midnight, central time, a storm passed ne over Neward washouts were reported on railroads to the southward. castle, Ky., with very heavy thunder, lightning, small hail, On the 23d, between 1 and 2 a.m., a heavy wind and hail and heavy rainfall following. A roaring sound was heard, storm at Berkeley, Cal., uprooted trees and stripped them of and timbers were carried some distance. The path of heaviest their branches. At San Diego, Cal., rain began in the early wind was about 50 yards in width; buildings were damaged morning of the 22d and continued all day, with steady south to the extent of about \$2,000. At Louisville, Ky., a heavy to southeast wind. Heavy rain continued nearly all night of thunder-storm occurred the night of the 24-25th, with heavy

25th.-A dust storm prevailed at Abilene, Tex., in the to 29.00, the lowest since 1880. At Winnemucca, Nev., a afternoon. The wind shifted to n., and reached 52 miles per south gale began 1.15 a. m., 23d, with maximum velocity 40 hour. The instrument shelter of the Signal Office was carried miles per hour. Rain began 4.45 a. m., and changed to moist away, some outhouses blown down, and other damage caused.

26th.—At Cape Henry, Va., a severe gale prevailed, with 4.5 second gale began shortly after noon, with sleet and snow maximum velocity 54 miles per hour from the nw. at 5.22 p.m. squalls, and maximum wind velocity 58 miles per hour from the Rain, with snow squalls, occurred in the evening. All vessels sw. The storm ended 11 p. m. Sheds were blown down and were compelled to seek shelter in Hampton Roads. At Jack. panes of glass blown in. At Keeler, Cal., high s. winds prevailed sonville, Fla., a w. gale prevailed, with light rain in the morning. The wind reached a velocity of 56 miles per hour at 3.50 p. m. This velocity has been exceeded but once at that station, in

28th.—A heavy thunder-storm, with rain changing into snow, prevailed over southeast Massachusetts. At Wellfleet a church was struck by lightning and burned. At Truro the days at that place. At Los Angeles, Cal., the barometer fell a church was struck by lightning and burned. At Truro the during the night of the 22-23d, with brisk s. to se. winds and signal station was struck by lightning and set on fire. At rain, which fell heavily at times. At 8 a.m., 23d, the ba- Cape Cod Light station articles in the dwelling were torn to rometer read 29.50, corrected, the lowest reading recorded pieces and the keeper's wife was stunned. At New Bedford a during a winter storm; the lowest barometer previously re-corded being 29.52 during the great storm of February, 1884. evening. At Smith's Neck, Misharm Point, South Dartmouth, An immense amount of damage was caused in that region by Martha's Vineyard, and on Elizabeth Islands, and at other points, buildings were struck by lightning and burned.

o inland navigation.

Ohio, and Louisville, Ky. At Cincinnati the river was 38.9 the river rose at the rate of 0.2 foot per hour. At Louisville feet on the gauge at 7 a.m., a rise of 13.9 feet in 48 hours. the water was 16.6 feet in the canal at 5 p.m. On the 3d the

On the 2d the Ohio River was rising rapidly at Cincinnati, from the Little Miami and Licking rivers. During the day